

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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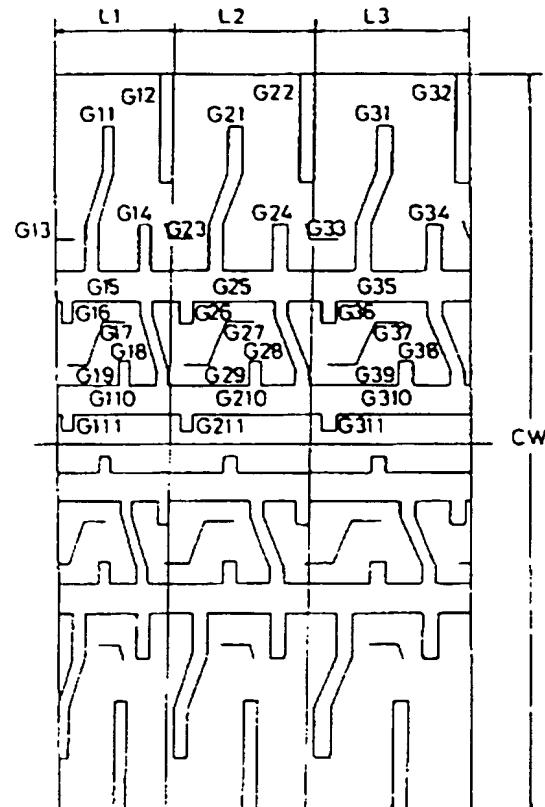
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APPLICANT : SUMITOMO RUBBER IND LTD;

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TITLE : TIRE HAVING IMPROVED  
UNIFORMITY



**ABSTRACT :** PURPOSE: To obtain low noise and improve uniformity by specifying a relative ratio between each of pitches of values obtained by dividing the sum total of the volume of the grooves of each of pitches by pitch length, in a tread pattern in which pattern units of different pitch lengths are arranged.

**CONSTITUTION:** Pitches P1–P3 having pitch lengths L1–L3 in the circumferential direction of a tire, are arranged in a tread part. A value A1 is obtained by dividing the sum total of the volumes V11–V111 of the grooves G11–G111 formed on the pitch P1 by the pitch length P1. Equally, the ratios A2, A3 of groove volumes to pitch lengths are obtained for the pitches P2, P3. And, the relative ratio of the values A1–A3 of each of these pitches P1–P3 is arranged to be in the range of 0.9–1.1. This construction optimizes a radial force variation, while making the thickness of tread rubber uniform.

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